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NS MAYPORT
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ADDENDUM 1 TO CONTAMINATION ASSESSMENT REPORT BUILDING 1490 SIMA SHOPS
NS MAYPORT FL
9/1/1993
U S ARMY CORPS OF ENGINEERS

REC'D 9/29

**ADDENDUM 1
TO
CONTAMINATION ASSESSMENT REPORT**

**MAYPORT NAVAL STATION
BUILDING 1490 - SIMA SHOPS**

MAYPORT, FLORIDA

PREPARED FOR

**UNITED STATES NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON, SOUTH CAROLINA**

PREPARED BY

**U.S. ARMY CORPS OF ENGINEERS
SAVANNAH DISTRICT
SAVANNAH, GEORGIA**

SEPTEMBER 1993

BACKGROUND

This addendum to the Contamination Assessment Report (CAR) for Building 1490 (adjacent to SIMA Building) at Mayport Naval Air Station, Mayport, Florida is a result of a request from the Florida Department of Environmental Regulation (FDER) to perform supplemental assessment work at the site. A copy of the FDER request and comments based on their review of the CAR can be found in attachment 1.

RESULTS OF SUPPLEMENTAL ASSESSMENT

The following findings of supplemental assessment at the site follow the numbered FDER comments shown in attachment 1.

1. Environmental compliance personnel at Mayport Naval Air Station implemented a program in February 1993 to measure and recover any free product, if needed, at the Building 1490 waste oil storage tank site. Although no free product has been observed in the monitoring wells during the monthly monitoring program, a minor amount of product (0.06 feet) was detected in well MPT-1490-1 at the time of the latest sampling event on 24 June 1993. The scheduled monthly monitoring check performed several days after the sampling event, found no accumulated product in the well. Subsequent monitoring of wells on the site has detected no additional accumulations of product.

2. To further define the horizontal and vertical extent of any potential ground-water contamination in the downgradient direction, an intermediate, supplemental, assessment well (MAY-1490-6) was installed near well MAY-1490-2 (see attachment 2). Well MAY-1490-6 was installed with the screen set between 17.0 and 22.0 feet below land surface (see well log in attachment 3).

Upon review of the original CAR dated May 1992, it appears the well log for intermediate, assessment well MAY-1490-5 may have been inadvertently, omitted. This well was also screened between 17.0 and 22.0 feet below land surface. The log of this well can also be found in attachment 3.

3. After the installation of supplemental assessment well MAY-1490-6, the ground water within this well and six other wells was sampled and analyzed for Xylenes, MTBE, and EPA Method 608, 624, and 625 compounds (see table 3-A, attachment 4). Due to the presence of free product (0.06 feet) in compliance well MPT-1490-1, no ground-water sample was collected for analysis during the most recent sampling event (24 June 93).

As summarized in Table 3-A, from the laboratory report provided in attachment 5, all of the chemicals analyzed from the most recent sampling event were reported as below detection limit (BDL) or less than the practical quantitation limit (PQL).

SUMMARY OF SUPPLEMENTAL ASSESSMENT

In comparing the results of the previous sampling event (11 January 92) for EDB, TRPH, MTBE, Lead, Xylenes, and EPA Method 601, 602, and 610 compounds to the results of the most recent sampling event on 24 June 1993 for MTBE, Xylenes, and EPA Method 608, 624, and 625 compounds, the extent of free product and ground-water contamination appears to be confined to the area adjacent to and slightly downgradient of the waste oil tank, just south of former Building 1490 (attachment 2).

LIST OF ATTACHMENTS

- ATTACHMENT 1 - FDER COMMENTS AND REQUEST FOR SUPPLEMENTAL ASSESSMENT
- ATTACHMENT 2 - SUPPLEMENTAL EXECUTIVE SUMMARY MAP
- ATTACHMENT 3 - MONITORING WELL LOGS
- ATTACHMENT 4 - TABLE 3-A, SUMMARY OF GROUND-WATER ANALYTICAL RESULTS
- ATTACHMENT 5 - SUPPLEMENTAL LABORATORY ANALYTICAL DATA

ATTACHMENT 1

FDER COMMENTS AND REQUEST FOR SUPPLEMENTAL ASSESSMENT



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400
Lawton Chiles, Governor

Carol M. Browner, Secretary

December 14, 1992

See 22 Dec CAC

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Mr. Carl Loop
Code 18237
Department of the Navy
Southern Division
Naval Facilities Engineering Command
2155 Eagle Drive
Post Office Box 10068
Charleston, South Carolina 26411

Dear Mr. Loop:

Department personnel have completed the technical review of the Contamination Assessment Report for Building 1490-SIMA shop, NS Mayport. I have enclosed a memorandum addressed to me from Mr. Jorge Caspary. It documents our comments on the referenced report.

If I can be of any further assistance with this matter, please contact me at 904/488-0190.

Sincerely,

Eric S. Nuzie

Eric S. Nuzie
Federal Facilities Coordinator

ESN/bb

Enclosure

cc: Jorge Caspary
Brian Cheary
Lynn Griffin
John Mitchell
Jerry Young
James Hudson
Cheryl Mitchell



State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

For Routing To Other Than The Addressee			
To:	Location:	To:	Location:
To:	Location:	To:	Location:
To:	Location:	To:	Location:
From:		Date:	

Interoffice Memorandum

To: Eric S. Nuzie, Federal Facilities Coordinator
Bureau of Waste Cleanup

THROUGH: Dr. James J. Crane, PGIII/Administrator *J.J.C.*
Technical Review Section

FROM: Jorge R. Caspary, PGI/Base Coordinator *J.R.C.*
Technical Review Section

DATE: December 1, 1992

SUBJECT: Review of Contamination Assessment Report for Building 1490-SJMA Shop. Mayport Naval Air Station.

I have reviewed the above referenced Contamination Assessment Report (CAR) dated May, 1992 (received May 22, 1992), submitted for this site. In order to meet the requirements of Chapter 17-770, Florida Administrative Code (F.A.C.), the following comments need to be addressed:

Please include an update of the recovery efforts conducted in accordance with Rule 17-770.300(1), F.A.C., particularly on free product thicknesses measured and volumes recovered to date.

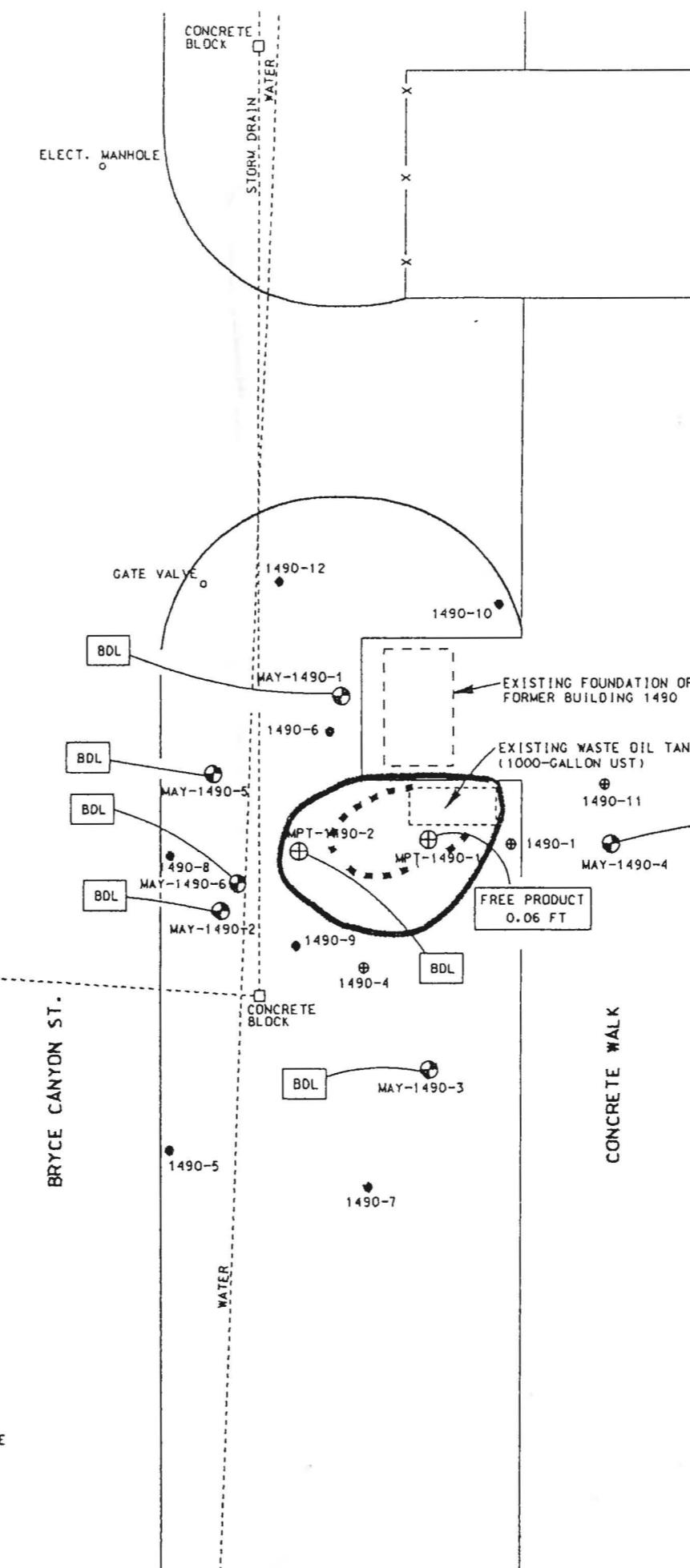
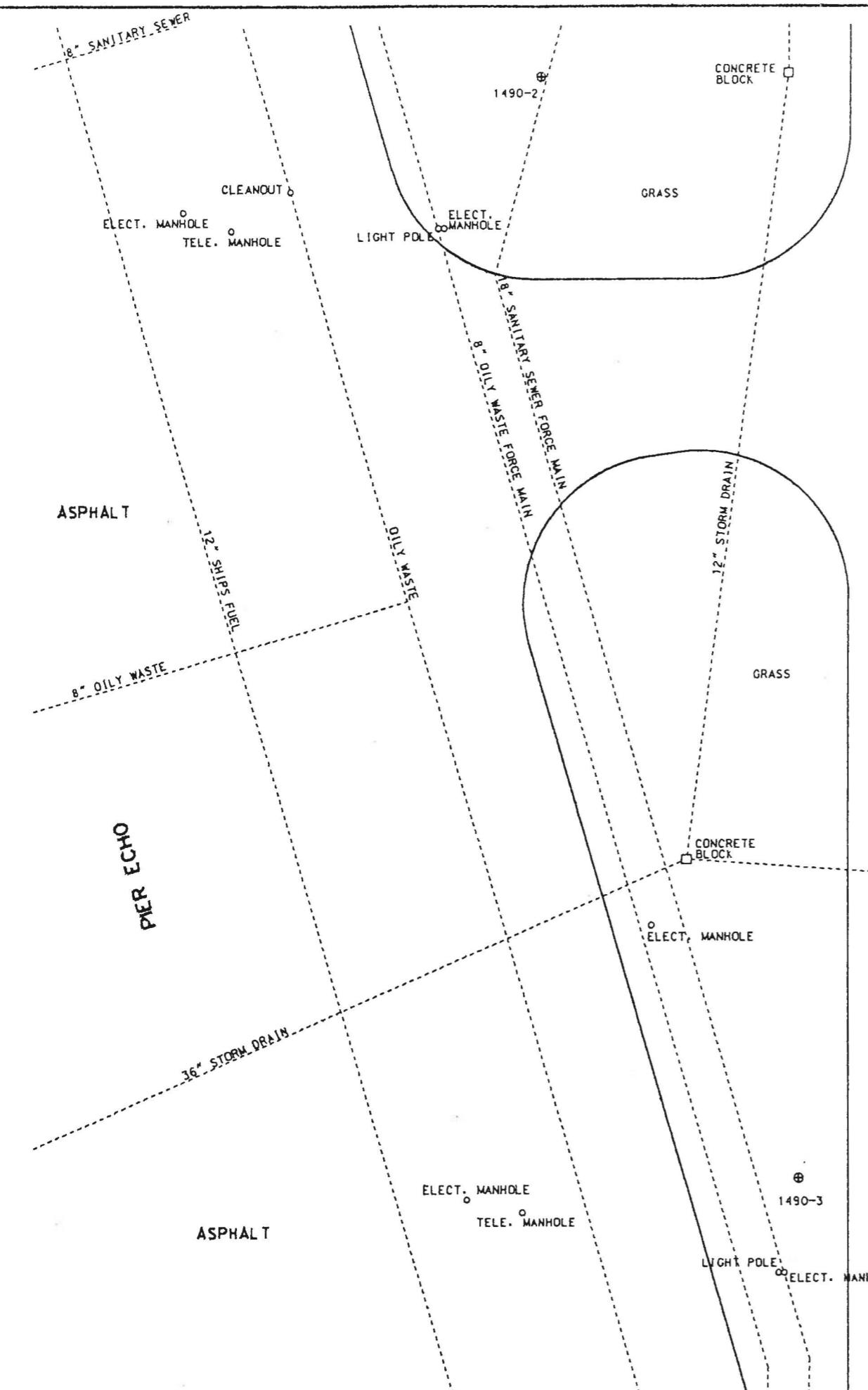
Due to the undefined vertical extent of groundwater contamination, an intermediate depth monitoring well (screened from 17 to 22 feet below land surface) should be installed approximately 15 feet southwest of MPT-1490-2 to define the horizontal and vertical extent of the groundwater contamination in the downgradient direction.

Following installation of the supplemental monitoring well, a complete round of sampling and analysis for EPA Methods 624 (including MTBE) and 625 should be performed (including compliance monitoring wells), so that this review can be completed and a Remedial Action Plan (RAP) can be prepared based on current data. Note, additional monitoring wells should be installed if significant contaminant concentrations are detected at perimeter monitoring wells of any affected stratum or at the vertical extent well.

Eric S. Nuzie
December 1, 1992
Page Two

The Navy should provide the results of the supplemental assessment to this section within sixty (60) days of receipt of this request. If additional time is needed, a time extension request should be submitted, in accordance with the Navy's Petroleum Contamination Agreement Site Management Plan. If there are any questions concerning this review, please contact Jorge R. Caspary at (904) 488-0190

ATTACHMENT 2
SUPPLEMENTAL EXECUTIVE SUMMARY MAP



LEGEND

- MAY-1490-3 PERMANENT MONITOR WELL
- MPT-1490-2 EXISTING COMPLIANCE WELL
- 1490-6 OVA HEADSPACE BORING
- 1490-11 TEMPORARY MONITOR WELL IN HEADSPACE BORING
- APPROXIMATE AERIAL EXTENT OF GROUND-WATER CONTAMINATION
- APPROXIMATE AERIAL EXTENT OF FREE PRODUCT PETROLEUM
- [BDL] BELOW DETECTION LIMIT DEFINED FOR ALL COMPOUNDS ANALYZED FROM GROUND-WATER SAMPLES.

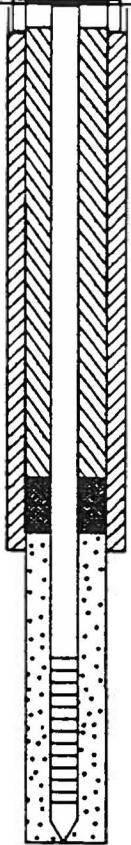
NOTE: GROUND-WATER ANALYTICAL RESULTS FROM SAMPLING EVENT ON 24 JUNE 1993. SAMPLES ANALYZED FOR MTBE, XYLENES, AND EPA METHOD 608, 624 AND 625 COMPOUNDS.

SCALE: 1"=20'
20' 0 20' 40'

U. S. ARMY ENGINEER DISTRICT, SAVANNAH CORPS OF ENGINEERS SAVANNAH, GEORGIA
PETROLEUM CONTAMINATION ASSESSMENT BUILDING 1490-SIMA SHOP
EXECUTIVE SUMMARY MAP (SUPPLEMENTAL)
CONTAMINATION OF GROUND WATER
UNITED STATES NAVY MAYPORT, FLORIDA
SCALE: 1"=20' REVISED 9/22/93

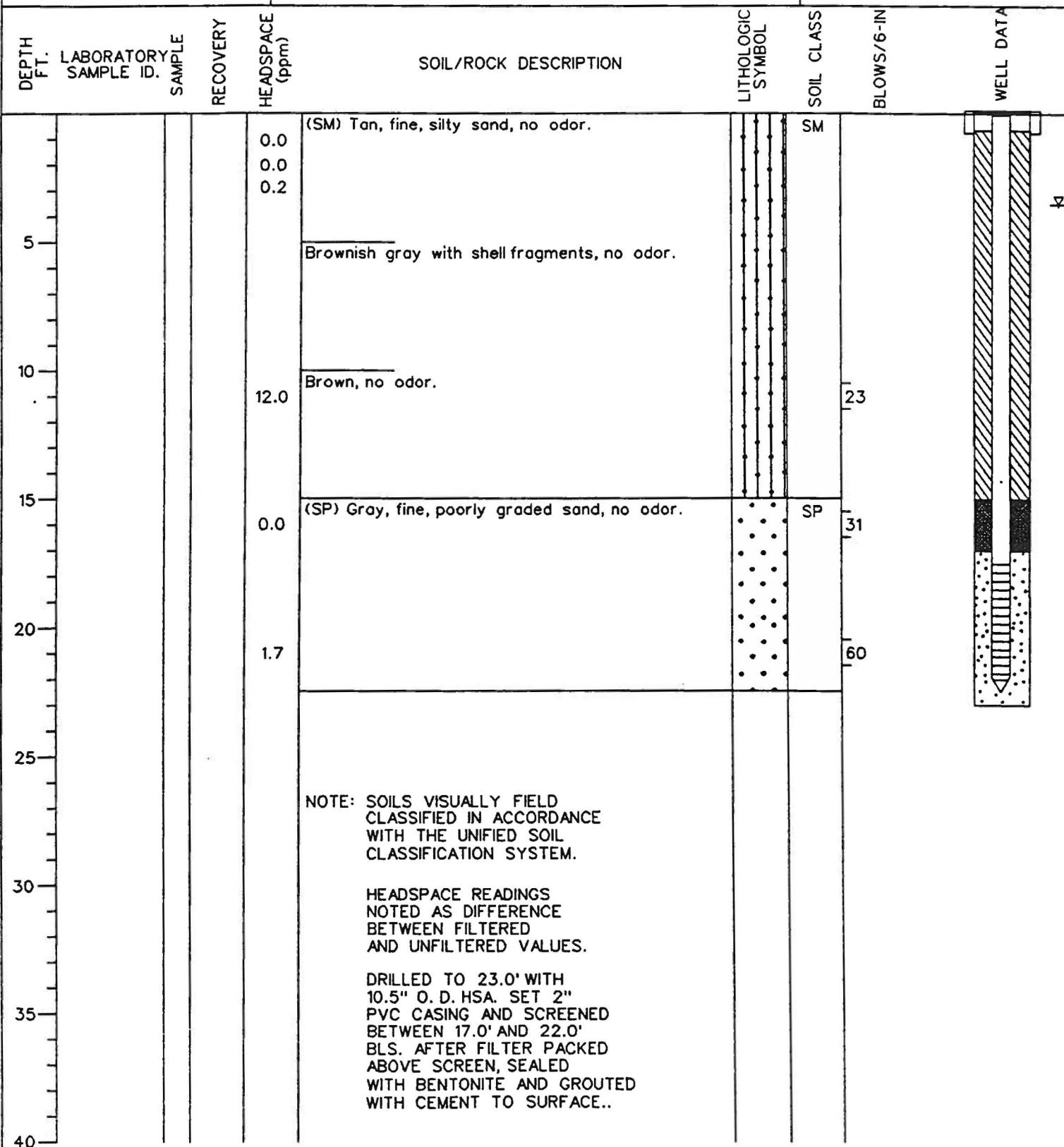
ATTACHMENT 3
MONITORING WELL LOGS

GROUNDWATER MONITORING WELL INSTALLATION REPORT

TITLE: Mayport Naval Station Bldg. 1490, SIMA Shops		LOG OF WELL: MAY-1490-5	BORING NO.					
CLIENT: SOUTHNAVFACENGCOM		PROJECT NO:						
CONTRACTOR: USACE - Sav. District		DATE STARTED: 24 APR 91	COMPLTD: 24 APR 91					
METHOD: 7" O.D.	CASE SIZE: 2" PVC	SCREEN INT.: 17.9' to 21.9'	PROTECTION LEVEL: D					
TOC ELEV.: 7.06'	MONITOR INST.: OVA	TOT. DEPTH: 23.0'	DEPTH TO ± 3.5'					
LOGGED BY: M. FIFE	WELL DEVELOPMENT DATE: 24 APR 91	SITE: Bld. 1490						
DEPTH FT.	LABORATORY SAMPLE ID.	SAMPLE RECOVERY	HEADSPACE (ppm)	SOIL/ROCK DESCRIPTION	LITHOLOGIC SYMBOL	SOIL CLASS	BLOWS/6-IN	WELL DATA
5				(SM) Brown, fine grained, silty sand. Saturated, with some shell fragments.	•••••	SM		
10				Gravel.	•••••			
15				(SP) Tan, fine grained, poorly graded sand. Brown and tan.	•••••	SP		
20				Light tan and gray. Light gray, very fine grained. Fine grained.	•••••			
25				NOTE: SOILS VISUALLY FIELD CLASSIFIED IN ACCORDANCE WITH THE UNIFIED SOIL CLASSIFICATION SYSTEM.				
30				DRILLED TO 15.0' WITH 12" FISHTAIL BIT. SET 8". PVC OUTER SURFACE CASING TO 15'. GROUTED ANNULAR SPACE WITH CEMENT. INNER 2" PVC SCREEN AND RISER TELESCOPED THROUGH TO DEPTH.				
35								
40								

SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND
GROUNDWATER MONITORING WELL INSTALLATION REPORT

TITLE:	Mayport Naval Station Bldg. 1490, SIMA Shops	LOG OF WELL:	MAY-1490-6	BORING NO.
CLIENT:	SOUTHNAVFACENGCOM		PROJECT NO:	
CONTRACTOR:	USACE - Sav. District		DATE STARTED:	4 FEB 93
METHOD:	7" O.D.	CASE SIZE:	2" PVC	SCREEN INT.: 17.0' to 22.0'
TOC ELEV.:	7.10'	MONITOR INST.:	OVA	TOT. DEPTH: 22.5'
LOGGED BY:	M. FIFE	WELL DEVELOPMENT DATE:		SITE: Bld. 1490



ATTACHMENT 4

TABLE 3-A, SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

TABLE 3-A (SUPPLEMENTAL)
SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

24 JUNE 93

MONITORING WELL MONTH-YEAR SAMPLED	MAY 1490-1- 6-93	MAY 1490-2- 6-93	MAY 1490-2- 6-93 DUPLICATE	MAY 1490-3- 6-93	MAY 1490-4- 6-93	MAY 1490-5- 6-93	MAY 1490-6- 6-93	MPT 1490-2- 6-93	MAY 1490- 6-93 EQP BLANK	1490- 6-93 TRIP BLANK
CHEMICAL NAME	PURGEABLES, EPA METHOD 624 VOLATILE ORGANICS									
Benzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromodichloromethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoform *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bromoethane **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Tetrachloride *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroethane **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Chloroethylvinyl Ether #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloroform *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chloromethane **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibromochloromethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,3-Dichlorobenzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloroethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1-Dichloroethene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trans-1,2-Dichloroethylene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cis-1,2-Dichloroethylene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichloropropane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Cis-1,3-Dichloropropene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trans-1,3-Dichloropropene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2,2-Tetrachloroethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,1-Trichloroethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,1,2-Trichloroethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethene *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichlorofluoromethane *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

Note: BDL = Below Detection Limit (ug/l), PQL = Practical Quantitation Limit (ug/l) = DL, * = DL 5, ** = DL 10, *** = DL 20, # = DL 50, ## = DL 500, ### = DL 2000, Ground-Water Samples Collected 8/24/93, Bldg 1490, Mayport Naval Station, MPLABADM.XLS

TABLE 3-A (CONT.)
SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

24 JUNE 93

MONITORING WELL MONTH-YEAR SAMPLED	MAY 1490-1- 6-93	MAY 1490-2- 6-93	MAY 1490-2- 6-93 DUPLICATE	MAY 1490-3- 6-93	MAY 1490-4- 6-93	MAY 1490-5- 6-93	MAY 1490-6- 6-93	MPT 1490-2- 6-93	MAY 1490- 6-93 EQP BLANK	1490- 6-93 TRIP BLANK
CHEMICAL NAME	BASE NUETRALS, EPA METHOD 625 SEMIVOLATILE ORGANICS									
Acenaphthene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Acenaphthylene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Anthracene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aldrin **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzo (a) Anthracene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzo (b) fluoranthene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzo (k) fluoranthene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzo (a) pyrene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzo (g,h,i) perylene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Benzyl butyl phthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
bis(2-Chloroethyl) ether **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
bis(2-Chloroethoxy) methane **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
bis(2-Ethylhexyl) phthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
bis(2-Chloroisopropyl) ether **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4-Bromophenyl-phenyl-ether **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2-Chloronaphthalene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4-Chlorophenyl-phenyl ether **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Chrysene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Dibenzo (a,h) anthracene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Di-n-butylphthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
1,3-Dichlorobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
1,2-Dichlorobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
1,4-Dichlorobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
3,3'-Dichlorobenzidine ***	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Diethyl phthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Dimethyl phthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2,4-Dinitrotoluene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A

Note: BDL - Below Detection Limit (ug/l), PQL - Practical Quantitation Limit (ug/l) - DL, * - DL 5, ** - DL 10, *** - DL 20, # - DL 50, ## - DL 500, ### - DL 2000, Ground-Water Samples Collected 6/24/93, Bldg 1490, Mayport Naval Station, MPLABADM.XLS

TABLE 3-A (CONT.)
SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

24 JUNE 93

MONITORING WELL MONTH-YEAR SAMPLED	MAY 1490-1- 6-93	MAY 1490-2- 6-93	MAY 1490-2- 6-93 DUPLICATE	MAY 1490-3- 6-93	MAY 1490-4- 6-93	MAY 1490-5- 6-93	MAY 1490-6- 6-93	MPT 1490-2- 6-93	MAY 1490- 6-93 EQP BLANK	1490- 6-93 TRIP BLANK
CHEMICAL NAME	BASE NUETRALS, EPA METHOD 625 SEMIVOLATILE ORGANICS (CONT.)									
2,6-Dinitrotoluene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Di-n-octylphthalate **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Fluoranthene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Fluorene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Hexachlorobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Hexachlorobutadiene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Hexachloroethane **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Indeno (1,2,3-cd) pyrene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Isophorone **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Naphthalene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Nitrobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
N-Nitrosodi-N-Propylamine **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Phenanthrene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Pyrene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
1,2,4-Trichlorobenzene **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
CHEMICAL NAME	ACID EXTRACTABLES, EPA METHOD 625 SEMIVOLATILE ORGANICS									
4-Chloro-3-methylphenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2-Chlorophenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2,4-Dichlorophenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2,4-Dimethylphenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2,4-Dinitrophenol #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2-Methyl-4,6-dinitrophenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2-Nitrophenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4-Nitrophenol #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Pentachlorophenol #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Phenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
2,4,6-Trichlorophenol **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A

Note: BDL = Below Detection Limit (ug/l), PQL = Practical Quantitation Limit (ug/l) - DL, * - DL 5, ** - DL 10, *** - DL 20, # - DL 50, ## - DL 500, ### - DL 2000, Ground-Water Samples Collected 6/24/93, Bldg 1490, Mayport Naval Station, MPLABADM.XLS

TABLE 3-A (CONT.)
SUMMARY OF GROUND-WATER ANALYTICAL RESULTS

24 JUNE 93

MONITORING WELL MONTH-YEAR SAMPLED	MAY 1490-1- 6-93	MAY 1490-2- 6-93	MAY 1490-2- 6-93 DUPLICATE	MAY 1490-3- 6-93	MAY 1490-4- 6-93	MAY 1490-5- 6-93	MAY 1490-6- 6-93	MPT 1490-2- 6-93	MAY 1490- 6-93 EQP BLANK	1490- 6-93 TRIP BLANK
CHEMICAL NAME	XYLEMES, MTBE, "TOXAPHENE, ORGANOCHLORINE PESTICIDES, & PCBs, EPA METHOD 608 SEMIVOLATILE ORGANICS"									
Xylenes *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Methyl-Tert-Butyl-Ether (MTBE) *	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Toxaphene ###	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
beta-BHC **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
delta-BHC **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Chlordane #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4,4'-DDD **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4,4'-DDE **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
4,4'-DDT **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Dieldrin **	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Endosulfan sulfate ***	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Endrin aldehyde #	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Heptachlor ***	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Heptachlor epoxide ***	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1016 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1221 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1232 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1242 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1248 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1254 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A
Aroclor-1260 ##	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	N/A

Note: BDL = Below Detection Limit (ug/l), PQL = Practical Quantitation Limit (ug/l) - DL, * - DL 5, ** - DL 10, *** - DL 20, # - DL 50, ## - DL 500, ### - DL 2000, Ground-Water Samples Collected 8/24/93, Bldg 1490, Mayport Naval Station, MPLABADM.XLS

ATTACHMENT 5
SUPPLEMENTAL LABORATORY ANALYTICAL DATA

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43674

Received: 26 JUN 93

Mr. Cardwell Smith
U.S. Army Engineer District, Savh
P. O. Box 889
Savannah, Georgia 31402-0889

Contract: DACA2191A0009

Project: CALL#005 Mayport Bld.1490
Sampled By: Client

REPORT OF RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
43674-1	Trip Blank	06-24-93
<hr/>		
PARAMETER		
		43674-1
<hr/>		
Purgeables (624)		
Benzene, ug/l	<5.0	
Bromodichloromethane, ug/l	<5.0	
Bromoform, ug/l	<5.0	
Bromomethane, ug/l	<10	
Carbon Tetrachloride, ug/l	<5.0	
Chlorobenzene, ug/l	<5.0	
Chloroethane, ug/l	<10	
2-Chloroethylvinyl Ether, ug/l	<50	
Chloroform, ug/l	<5.0	
Chloromethane, ug/l	<10	
Dibromochloromethane, ug/l	<5.0	
1,2-Dichlorobenzene, ug/l	<5.0	
1,3-Dichlorobenzene, ug/l	<5.0	
1,4-Dichlorobenzene, ug/l	<5.0	
1,1-Dichloroethane, ug/l	<5.0	
1,2-Dichloroethane, ug/l	<5.0	
1,1-Dichloroethene, ug/l	<5.0	
Trans-1,2-Dichloroethene, ug/l	<5.0	
Cis-1,2-Dichloroethene, ug/l	<5.0	
1,2-Dichloropropane, ug/l	<5.0	
Cis-1,3-Dichloropropene, ug/l	<5.0	
Trans-1,3-Dichloropropene, ug/l	<5.0	
Ethylbenzene, ug/l	<5.0	
<hr/>		

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REPORT OF RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED
43674-1	Trip Blank	06-24-93
PARAMETER		43674-1
Methylene Chloride, ug/l	<5.0	
1,1,2,2-Tetrachloroethane, ug/l	<5.0	
Tetrachloroethene, ug/l	<5.0	
Toluene, ug/l	<5.0	
1,1,1-Trichloroethane, ug/l	<5.0	
1,1,2-Trichloroethane, ug/l	<5.0	
Trichloroethylene, ug/l	<5.0	
Trichlorofluoromethane, ug/l	<5.0	
Vinyl Chloride, ug/l	<10	
Xylenes, ug/l	<5.0	
Surrogate - Toluene-d8	111 %	
Surrogate - 4-Bromofluorobenzene	114 %	
Surrogate - 1,2-Dichloroethane-d4	119 %	
Date Analyzed	07.02.93	
Methyl-Tert-Butyl-Ether (MTBE), ug/l	<10	

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REPORT OF RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93		06-24-93			
43674-3	MAY-1490-5-6-93		06-24-93			
43674-4	MAY-1490-2-6-93		06-24-93			
43674-5	MAY-1490-3-6-93		06-24-93			
43674-6	MAY-1490-4-6-93		06-24-93			
PARAMETER		43674-2	43674-3	43674-4	43674-5	43674-6
Purgeables (624)						
Benzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Bromodichloromethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Bromoform, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane, ug/l		<10	<10	<10	<10	<10
Carbon Tetrachloride, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Chlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l		<10	<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l		<50	<50	<50	<50	<50
Chloroform, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Chloromethane, ug/l		<10	<10	<10	<10	<10
Dibromochloromethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Trans-1,2-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Cis-1,2-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0

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REPORT OF RESULTS

Page 4

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93		06-24-93			
43674-3	MAY-1490-5-6-93		06-24-93			
43674-4	MAY-1490-2-6-93		06-24-93			
43674-5	MAY-1490-3-6-93		06-24-93			
43674-6	MAY-1490-4-6-93		06-24-93			
PARAMETER		43674-2	43674-3	43674-4	43674-5	43674-6
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Methylene Chloride, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Toluene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethylene, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<10	<10	<10	<10	<10
Xylenes, ug/l		<5.0	<5.0	<5.0	<5.0	<5.0
Surrogate - Toluene-d8	104 %	96 %	103 %	108 %	105 %	
Surrogate - 4-Bromofluorobenzene	123 %	119 %	114 %	115 %	114 %	
Surrogate -	115 %	108 %	115 %	123 %	118 %	
1,2-Dichloroethane-d4						
Date Analyzed	07.02.93	07.02.93	07.03.93	07.03.93	07.03.93	
Methyl-Tert-Butyl-Ether (MTBE), ug/l	<10	<10	<10	<10	<10	

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Project: CALL#005 Mayport Bld.1490
 Sampled By: Client

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93					06-24-93
43674-3	MAY-1490-5-6-93					06-24-93
43674-4	MAY-1490-2-6-93					06-24-93
43674-5	MAY-1490-3-6-93					06-24-93
43674-6	MAY-1490-4-6-93					06-24-93
PARAMETER		43674-2	43674-3	43674-4	43674-5	43674-6
BN-A Extractables (625)						
Acenaphthene, ug/l		<10	<10	<10	<10	<10
Acenaphthylene, ug/l		<10	<10	<10	<10	<10
Anthracene, ug/l		<10	<10	<10	<10	<10
Aldrin, ug/l		<10	<10	<10	<10	<10
Benzo(a)Anthracene, ug/l		<10	<10	<10	<10	<10
Benzo(b)fluoranthene, ug/l		<10	<10	<10	<10	<10
Benzo(k)fluoranthene, ug/l		<10	<10	<10	<10	<10
Benzo(a)pyrene, ug/l		<10	<10	<10	<10	<10
Benzo(g,h,i)perylene, ug/l		<10	<10	<10	<10	<10
Benzyl butyl phthalate, ug/l		<10	<10	<10	<10	<10
beta-BHC, ug/l		<10	<10	<10	<10	<10
delta-BHC, ug/l		<10	<10	<10	<10	<10
bis(2-Chloroethyl)ether, ug/l		<10	<10	<10	<10	<10
bis(2-Chloroethoxy)methane, ug/l		<10	<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate, ug/l		<10	<10	<10	<10	<10
Bis(2-chloroisopropyl)ether, ug/l		<10	<10	<10	<10	<10
4-Bromophenyl-phenyl-ether, ug/l		<10	<10	<10	<10	<10
Chlordane, ug/l		<50	<50	<50	<50	<50
2-Chloronaphthalene, ug/l		<10	<10	<10	<10	<10

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Project: CALL#005 Mayport Bld.1490
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REPORT OF RESULTS

Page 6

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93		06-24-93			
43674-3	MAY-1490-5-6-93		06-24-93			
43674-4	MAY-1490-2-6-93		06-24-93			
43674-5	MAY-1490-3-6-93		06-24-93			
43674-6	MAY-1490-4-6-93		06-24-93			
PARAMETER		43674-2	43674-3	43674-4	43674-5	43674-6
4-Chlorophenyl-phenyl ether, ug/l	<10	<10	<10	<10	<10	<10
Chrysene, ug/l	<10	<10	<10	<10	<10	<10
4,4'-DDD, ug/l	<10	<10	<10	<10	<10	<10
4,4'-DDE, ug/l	<10	<10	<10	<10	<10	<10
4,4'-DDT, ug/l	<10	<10	<10	<10	<10	<10
Dibenz(a,h)anthracene, ug/l	<10	<10	<10	<10	<10	<10
Di-n-butylphthalate, ug/l	<10	<10	<10	<10	<10	<10
1,3-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10	<10
1,2-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10	<10
1,4-Dichlorobenzene, ug/l	<10	<10	<10	<10	<10	<10
3,3'-Dichlorobenzidine, ug/l	<20	<20	<20	<20	<20	<20
Dieldrin, ug/l	<10	<10	<10	<10	<10	<10
Diethylphthalate, ug/l	<10	<10	<10	<10	<10	<10
Dimethylphthalate, ug/l	<10	<10	<10	<10	<10	<10
2,4-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l	<10	<10	<10	<10	<10	<10
Di-n-octylphthalate, ug/l	<10	<10	<10	<10	<10	<10
Endosulfan sulfate, ug/l	<20	<20	<20	<20	<20	<20
Endrin Aldehyde, ug/l	<50	<50	<50	<50	<50	<50
Fluoranthene, ug/l	<10	<10	<10	<10	<10	<10

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REPORT OF RESULTS

Page 7

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93					06-24-93
43674-3	MAY-1490-5-6-93					06-24-93
43674-4	MAY-1490-2-6-93					06-24-93
43674-5	MAY-1490-3-6-93					06-24-93
43674-6	MAY-1490-4-6-93					06-24-93
PARAMETER	43674-2	43674-3	43674-4	43674-5	43674-6	
Fluorene, ug/l	<10	<10	<10	<10	<10	<10
Heptachlor, ug/l	<20	<20	<20	<20	<20	<20
Heptachlor epoxide, ug/l	<20	<20	<20	<20	<20	<20
Hexachlorobenzene, ug/l	<10	<10	<10	<10	<10	<10
Hexachlorobutadiene, ug/l	<10	<10	<10	<10	<10	<10
Hexachloroethane, ug/l	<10	<10	<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, ug/l	<10	<10	<10	<10	<10	<10
Isophorone, ug/l	<10	<10	<10	<10	<10	<10
Naphthalene, ug/l	<10	<10	<10	<10	<10	<10
Nitrobenzene, ug/l	<10	<10	<10	<10	<10	<10
N-Nitrosodi-N-Propylamine, ug/l	<10	<10	<10	<10	<10	<10
Aroclor-1016, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1221, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1232, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1242, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1248, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1254, ug/l	<500	<500	<500	<500	<500	<500
Aroclor-1260, ug/l	<500	<500	<500	<500	<500	<500
Phenanthrene, ug/l	<10	<10	<10	<10	<10	<10
Pyrene, ug/l	<10	<10	<10	<10	<10	<10

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REPORT OF RESULTS

Page 8

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED				
43674-2	MAY-1490-1-6-93		06-24-93			
43674-3	MAY-1490-5-6-93		06-24-93			
43674-4	MAY-1490-2-6-93		06-24-93			
43674-5	MAY-1490-3-6-93		06-24-93			
43674-6	MAY-1490-4-6-93		06-24-93			
PARAMETER	43674-2	43674-3	43674-4	43674-5	43674-6	
Toxaphene, ug/l	<2000	<2000	<2000	<2000	<2000	<2000
1,2,4-Trichlorobenzene, ug/l	<10	<10	<10	<10	<10	<10
4-Chloro-3-methylphenol, ug/l	<10	<10	<10	<10	<10	<10
2-Chlorophenol, ug/l	<10	<10	<10	<10	<10	<10
2,4-Dichlorophenol, ug/l	<10	<10	<10	<10	<10	<10
2,4-Dimethylphenol, ug/l	<10	<10	<10	<10	<10	<10
2,4-Dinitrophenol, ug/l	<50	<50	<50	<50	<50	<50
2-Methyl-4,6-dinitrophenol, ug/l	<10	<10	<10	<10	<10	<10
2-Nitrophenol, ug/l	<10	<10	<10	<10	<10	<10
4-Nitrophenol, ug/l	<50	<50	<50	<50	<50	<50
Pentachlorophenol, ug/l	<50	<50	<50	<50	<50	<50
Phenol, ug/l	<10	<10	<10	<10	<10	<10
2,4,6-Trichlorophenol, ug/l	<10	<10	<10	<10	<10	<10
Surrogate-PHL	83 %	92 %	81 %	86 %	89 %	
Surrogate-2FP	65 %	62 %	60 %	66 %	67 %	
Surrogate-TBP	86 %	103 %	104 %	103 %	106 %	
Surrogate-NBZ	80 %	76 %	78 %	85 %	89 %	
Surrogate-2FBP	69 %	68 %	68 %	69 %	73 %	
Surrogate-TPH	67 %	81 %	61 %	61 %	63 %	
Date Extracted	06.29.93	06.29.93	06.29.93	06.29.93	06.29.93	
Date Analyzed	07.01.93	07.01.93	07.01.93	07.01.93	07.01.93	

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REPORT OF RESULTS

Page 9

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED			
PARAMETER		43674-7	43674-8	43674-9	43674-10
Purgeables (624)					
Benzene, ug/l		<5.0	<5.0	<5.0	<5.0
Bromodichloromethane, ug/l		<5.0	<5.0	<5.0	<5.0
Bromoform, ug/l		<5.0	<5.0	<5.0	<5.0
Bromomethane, ug/l		<10	<10	<10	<10
Carbon Tetrachloride, ug/l		<5.0	<5.0	<5.0	<5.0
Chlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0
Chloroethane, ug/l		<10	<10	<10	<10
2-Chloroethylvinyl Ether, ug/l		<50	<50	<50	<50
Chloroform, ug/l		<5.0	<5.0	<5.0	<5.0
Chloromethane, ug/l		<10	<10	<10	<10
Dibromochloromethane, ug/l		<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene, ug/l		<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0
1,2-Dichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0
Trans-1,2-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0
Cis-1,2-Dichloroethene, ug/l		<5.0	<5.0	<5.0	<5.0
1,2-Dichloropropane, ug/l		<5.0	<5.0	<5.0	<5.0

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LOG NO: S3-43674

Received: 26 JUN 93

Mr. Cardwell Smith
 U.S. Army Engineer District, Savh
 P. O. Box 889
 Savannah, Georgia 31402-0889

Contract: DACA2191A0009

Project: CALL#005 Mayport Bld.1490
 Sampled By: Client

REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED			
43674-7	MPT-1490-2-6-93	06-24-93			
43674-8	MAY-1490-EQP-BLK-6-93	06-24-93			
43674-9	MAY-1490-2-DUP-6-93	06-24-93			
43674-10	MAY-1490-6-6-93	06-24-93			
PARAMETER		43674-7	43674-8	43674-9	43674-10
Cis-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0
Trans-1,3-Dichloropropene, ug/l		<5.0	<5.0	<5.0	<5.0
Ethylbenzene, ug/l		<5.0	<5.0	<5.0	<5.0
Methylene Chloride, ug/l		<5.0	<5.0	<5.0	<5.0
1,1,2,2-Tetrachloroethane, ug/l		<5.0	<5.0	<5.0	<5.0
Tetrachloroethene, ug/l		<5.0	<5.0	<5.0	<5.0
Toluene, ug/l		<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0
1,1,2-Trichloroethane, ug/l		<5.0	<5.0	<5.0	<5.0
Trichloroethylene, ug/l		<5.0	<5.0	<5.0	<5.0
Trichlorofluoromethane, ug/l		<5.0	<5.0	<5.0	<5.0
Vinyl Chloride, ug/l		<10	<10	<10	<10
Xylenes, ug/l		<5.0	<5.0	<5.0	<5.0
Surrogate - Toluene-d8	107 %	109 %	112 %	108 %	
Surrogate - 4-Bromofluorobenzene	113 %	112 %	119 %	115 %	
Surrogate - 1,2-Dichloroethane-d4	120 %	114 %	117 %	123 %	
Date Analyzed	07.03.93	07.07.93	07.03.93	07.05.93	
Methyl-Tert-Butyl-Ether (MTBE), ug/l	<10	<10	<10	<10	

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REPORT OF RESULTS

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED			
PARAMETER		43674-7	43674-8	43674-9	43674-10
BN-A Extractables (625)					
Acenaphthene, ug/l		<10	<10	<10	<10
Acenaphthylene, ug/l		<10	<10	<10	<10
Anthracene, ug/l		<10	<10	<10	<10
Aldrin, ug/l		<10	<10	<10	<10
Benzo(a)Anthracene, ug/l		<10	<10	<10	<10
Benzo(b)fluoranthene, ug/l		<10	<10	<10	<10
Benzo(k)fluoranthene, ug/l		<10	<10	<10	<10
Benzo(a)pyrene, ug/l		<10	<10	<10	<10
Benzo(g,h,i)perylene, ug/l		<10	<10	<10	<10
Benzyl butyl phthalate, ug/l		<10	<10	<10	<10
beta-BHC, ug/l		<10	<10	<10	<10
delta-BHC, ug/l		<10	<10	<10	<10
bis(2-Chloroethyl)ether, ug/l		<10	<10	<10	<10
bis(2-Chloroethoxy)methane, ug/l		<10	<10	<10	<10
bis(2-Ethylhexyl)phthalate, ug/l		<10	<10	<10	<10
Bis(2-chloroisopropyl)ether, ug/l		<10	<10	<10	<10
4-Bromophenyl-phenyl-ether, ug/l		<10	<10	<10	<10
Chlordane, ug/l		<50	<50	<50	<50
2-Chloronaphthalene, ug/l		<10	<10	<10	<10
4-Chlorophenyl-phenyl ether, ug/l		<10	<10	<10	<10

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED			
PARAMETER		43674-7	43674-8	43674-9	43674-10
Chrysene, ug/l		<10	<10	<10	<10
4,4'-DDD, ug/l		<10	<10	<10	<10
4,4'-DDE, ug/l		<10	<10	<10	<10
4,4'-DDT, ug/l		<10	<10	<10	<10
Dibenz(a,h)anthracene, ug/l		<10	<10	<10	<10
Di-n-butylphthalate, ug/l		<10	<10	<10	<10
1,3-Dichlorobenzene, ug/l		<10	<10	<10	<10
1,2-Dichlorobenzene, ug/l		<10	<10	<10	<10
1,4-Dichlorobenzene, ug/l		<10	<10	<10	<10
3,3'-Dichlorobenzidine, ug/l		<20	<20	<20	<20
Dieldrin, ug/l		<10	<10	<10	<10
Diethylphthalate, ug/l		<10	<10	<10	<10
Dimethylphthalate, ug/l		<10	<10	<10	<10
2,4-Dinitrotoluene, ug/l		<10	<10	<10	<10
2,6-Dinitrotoluene, ug/l		<10	<10	<10	<10
Di-n-octylphthalate, ug/l		<10	<10	<10	<10
Endosulfan sulfate, ug/l		<20	<20	<20	<20
Endrin Aldehyde, ug/l		<50	<50	<50	<50
Fluoranthene, ug/l		<10	<10	<10	<10
Fluorene, ug/l		<10	<10	<10	<10
Heptachlor, ug/l		<20	<20	<20	<20

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LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE SAMPLED			
PARAMETER		43674-7	43674-8	43674-9	43674-10
Heptachlor epoxide, ug/l		<20	<20	<20	<20
Hexachlorobenzene, ug/l		<10	<10	<10	<10
Hexachlorobutadiene, ug/l		<10	<10	<10	<10
Hexachloroethane, ug/l		<10	<10	<10	<10
Indeno(1,2,3-cd)pyrene, ug/l		<10	<10	<10	<10
Isophorone, ug/l		<10	<10	<10	<10
Naphthalene, ug/l		<10	<10	<10	<10
Nitrobenzene, ug/l		<10	<10	<10	<10
N-Nitrosodi-N-Propylamine, ug/l		<10	<10	<10	<10
Aroclor-1016, ug/l		<500	<500	<500	<500
Aroclor-1221, ug/l		<500	<500	<500	<500
Aroclor-1232, ug/l		<500	<500	<500	<500
Aroclor-1242, ug/l		<500	<500	<500	<500
Aroclor-1248, ug/l		<500	<500	<500	<500
Aroclor-1254, ug/l		<500	<500	<500	<500
Aroclor-1260, ug/l		<500	<500	<500	<500
Phenanthrene, ug/l		<10	<10	<10	<10
Pyrene, ug/l		<10	<10	<10	<10
Toxaphene, ug/l		<2000	<2000	<2000	<2000
1,2,4-Trichlorobenzene, ug/l		<10	<10	<10	<10
4-Chloro-3-methylphenol, ug/l		<10	<10	<10	<10

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43674-7	MPT-1490-2-6-93		06-24-93		
43674-8	MAY-1490-EQP-BLK-6-93		06-24-93		
43674-9	MAY-1490-2-DUP-6-93		06-24-93		
43674-10	MAY-1490-6-6-93		06-24-93		
PARAMETER		43674-7	43674-8	43674-9	43674-10
2-Chlorophenol, ug/l		<10	<10	<10	<10
2,4-Dichlorophenol, ug/l		<10	<10	<10	<10
2,4-Dimethylphenol, ug/l		<10	<10	<10	<10
2,4-Dinitrophenol, ug/l		<50	<50	<50	<50
2-Methyl-4,6-dinitrophenol, ug/l		<10	<10	<10	<10
2-Nitrophenol, ug/l		<10	<10	<10	<10
4-Nitrophenol, ug/l		<50	<50	<50	<50
Pentachlorophenol, ug/l		<50	<50	<50	<50
Phenol, ug/l		<10	<10	<10	<10
2,4,6-Trichlorophenol, ug/l		<10	<10	<10	<10
Surrogate-PHL		79 %	88 %	91 %	99 %
Surrogate-2FP		59 %	68 %	69 %	72 %
Surrogate-TBP		108 %	99 %	109 %	102 %
Surrogate-NBZ		80 %	91 %	91 %	94 %
Surrogate-2FBP		65 %	75 %	73 %	76 %
Surrogate-TPH		65 %	97 %	69 %	77 %
Date Extracted		06.29.93	06.29.93	06.29.93	06.29.93
Date Analyzed		07.01.93	07.01.93	07.01.93	07.01.93

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REPORT OF RESULTS

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LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

43674-11 Practical Quantitation Limits-Water
43674-12 Method Blank Result
43674-13 Lab Control Standard (LCS) Result/Duplicate
43674-14 LCS Expected Value
43674-15 LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
Purgeables (624)					
Benzene, ug/l	5.0	<5.0	54.7/52.7	50	115/105 %
Bromodichloromethane, ug/l	5.0	<5.0	---	---	---
Bromoform, ug/l	5.0	<5.0	---	---	---
Bromomethane, ug/l	10	<10	---	---	---
Carbon Tetrachloride, ug/l	5.0	<5.0	---	---	---
Chlorobenzene, ug/l	5.0	<5.0	57.8/53.2	50	116/106 %
Chloroethane, ug/l	10	<10	---	---	---
2-Chloroethylvinyl Ether, ug/l	50	<50	---	---	---
Chloroform, ug/l	5.0	<5.0	---	---	---
Chloromethane, ug/l	10	<10	---	---	---
Dibromochloromethane, ug/l	5.0	<5.0	---	---	---
1,2-Dichlorobenzene, ug/l	5.0	<5.0	---	---	---
1,3-Dichlorobenzene, ug/l	5.0	<5.0	---	---	---
1,4-Dichlorobenzene, ug/l	5.0	<5.0	---	---	---
1,1-Dichloroethane, ug/l	5.0	<5.0	---	---	---
1,2-Dichloroethane, ug/l	5.0	<5.0	---	---	---
1,1-Dichloroethene, ug/l	5.0	<5.0	46.1/43.6	50	92/87 %
Trans-1,2-Dichloroethene, ug/l	5.0	<5.0	---	---	---
Cis-1,2-Dichloroethene, ug/l	5.0	<5.0	---	---	---

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REPORT OF RESULTS

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LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

43674-11 Practical Quantitation Limits-Water

43674-12 Method Blank Result

43674-13 Lab Control Standard (LCS) Result/Duplicate

43674-14 LCS Expected Value

43674-15 LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
1,2-Dichloropropane, ug/l	5.0	<5.0	---	---	---
Cis-1,3-Dichloropropene, ug/l	5.0	<5.0	---	---	---
Trans-1,3-Dichloropropene, ug/l	5.0	<5.0	---	---	---
Ethylbenzene, ug/l	5.0	<5.0	---	---	---
Methylene Chloride, ug/l	5.0	<5.0	---	---	---
1,1,2,2-Tetrachloroethane, ug/l	5.0	<5.0	---	---	---
Tetrachloroethene, ug/l	5.0	<5.0	---	---	---
Toluene, ug/l	5.0	<5.0	56.5/54.1	50	113/108 %
1,1,1-Trichloroethane, ug/l	5.0	<5.0	---	---	---
1,1,2-Trichloroethane, ug/l	5.0	<5.0	---	---	---
Trichloroethylene, ug/l	5.0	<5.0	54.5/51.8	50	109/104 %
Trichlorofluoromethane, ug/l	5.0	<5.0	---	---	---
Vinyl Chloride, ug/l	10	<10	---	---	---
Xylenes, ug/l	5.0	<5.0	---	---	---
Methyl-Tert-Butyl-Ether (MTBE), ug/l	10	<10	---	---	---
Surrogate - Toluene-d8	---	---	112/103 %	---	---
Surrogate - 4-Bromofluorobenzene	---	---	124/107 %	---	---
Surrogate - 1,2-Dichloroethane-d4	---	---	116/103 %	---	---
Date Analyzed	---	---	07.01.93	---	---

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43674-14 LCS Expected Value
43674-15 LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
BN-A Extractables (625)					
Acenaphthene, ug/l	10	<10	44.4/40.0	50	89/80 %
Acenaphthylene, ug/l	10	<10	---	---	---
Anthracene, ug/l	10	<10	---	---	---
Aldrin, ug/l	10	<10	---	---	---
Benzo(a)Anthracene, ug/l	10	<10	---	---	---
Benzo(b)fluoranthene, ug/l	10	<10	---	---	---
Benzo(k)fluoranthene, ug/l	10	<10	---	---	---
Benzo(a)pyrene, ug/l	10	<10	---	---	---
Benzo(g,h,i)perylene, ug/l	10	<10	---	---	---
Benzyl butyl phthalate, ug/l	10	<10	---	---	---
beta-BHC, ug/l	10	<10	---	---	---
delta-BHC, ug/l	10	<10	---	---	---
bis(2-Chloroethyl)ether, ug/l	10	<10	---	---	---
bis(2-Chloroethoxy)methane, ug/l	10	<10	---	---	---
bis(2-Ethylhexyl)phthalate, ug/l	10	<10	---	---	---
Bis(2-chloroisopropyl)ether, ug/l	10	<10	---	---	---
4-Bromophenyl-phenyl-ether, ug/l	10	<10	---	---	---
Chlordane, ug/l	50	<50	---	---	---
2-Chloronaphthalene, ug/l	10	<10	---	---	---

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43674-12 Method Blank Result
43674-13 Lab Control Standard (LCS) Result/Duplicate
43674-14 LCS Expected Value
43674-15 LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
4-Chlorophenyl-phenyl ether, ug/l	10	<10	---	---	---
Chrysene, ug/l	10	<10	---	---	---
4,4'-DDD, ug/l	10	<10	---	---	---
4,4'-DDE, ug/l	10	<10	---	---	---
4,4'-DDT, ug/l	10	<10	---	---	---
Dibenz(a,h)anthracene, ug/l	10	<10	---	---	---
Di-n-butylphthalate, ug/l	10	<10	---	---	---
1,3-Dichlorobenzene, ug/l	10	<10	---	---	---
1,2-Dichlorobenzene, ug/l	10	<10	---	---	---
1,4-Dichlorobenzene, ug/l	10	<10	37.3/33.3	50	75/67 %
3,3'-Dichlorobenzidine, ug/l	20	<20	---	---	---
Dieldrin, ug/l	10	<10	---	---	---
Diethylphthalate, ug/l	10	<10	---	---	---
Dimethylphthalate, ug/l	10	<10	---	---	---
2,4-Dinitrotoluene, ug/l	10	<10	51.4/42.5	50	103/85 %
2,6-Dinitrotoluene, ug/l	10	<10	---	---	---
Di-n-octylphthalate, ug/l	10	<10	---	---	---
Endosulfan sulfate, ug/l	20	<20	---	---	---
Endrin Aldehyde, ug/l	50	<50	---	---	---
Fluoranthene, ug/l	10	<10	---	---	---

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43674-13 Lab Control Standard (LCS) Result/Duplicate
43674-14 LCS Expected Value
43674-15 LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
Fluorene, ug/l	10	<10	---	---	---
Heptachlor, ug/l	20	<20	---	---	---
Heptachlor epoxide, ug/l	20	<20	---	---	---
Hexachlorobenzene, ug/l	10	<10	---	---	---
Hexachlorobutadiene, ug/l	10	<10	---	---	---
Hexachloroethane, ug/l	10	<10	---	---	---
Indeno(1,2,3-cd)pyrene, ug/l	10	<10	---	---	---
Isophorone, ug/l	10	<10	---	---	---
Naphthalene, ug/l	10	<10	---	---	---
Nitrobenzene, ug/l	10	<10	---	---	---
N-Nitrosodi-N-Propylamine, ug/l	10	<10	64.9/61.7	50	130/123 %
Aroclor-1016, ug/l	500	<500	---	---	---
Aroclor-1221, ug/l	500	<500	---	---	---
Aroclor-1232, ug/l	500	<500	---	---	---
Aroclor-1242, ug/l	500	<500	---	---	---
Aroclor-1248, ug/l	500	<500	---	---	---
Aroclor-1254, ug/l	500	<500	---	---	---
Aroclor-1260, ug/l	500	<500	---	---	---
Phenanthrene, ug/l	10	<10	---	---	---
Pyrene, ug/l	10	<10	50.0/51.2	50	100/102 %

SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.

5102 LaRoche Avenue • Savannah, GA 31404 • (912) 354-7858 • Fax (912) 352-0165

LOG NO: S3-43674

Received: 26 JUN 93

Mr. Cardwell Smith
 U.S. Army Engineer District, Savannah
 P. O. Box 889
 Savannah, Georgia 31402-0889

Contract: DACA2191A0009

Project: CALL#005 Mayport Bld.1490
 Sampled By: Client

REPORT OF RESULTS

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LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

43674-11	Practical Quantitation Limits-Water
43674-12	Method Blank Result
43674-13	Lab Control Standard (LCS) Result/Duplicate
43674-14	LCS Expected Value
43674-15	LCS % Recovery/Duplicate

PARAMETER	43674-11	43674-12	43674-13	43674-14	43674-15
Toxaphene, ug/l	2000	<2000	---	---	---
1,2,4-Trichlorobenzene, ug/l	10	<10	40.4/35.6	50	81/71 %
4-Chloro-3-methylphenol, ug/l	10	<10	88.1/81.6	100	88/82 %
2-Chlorophenol, ug/l	10	<10	79/73.2	100	79/73 %
2,4-Dichlorophenol, ug/l	10	<10	---	---	---
2,4-Dimethylphenol, ug/l	10	<10	---	---	---
2,4-Dinitrophenol, ug/l	50	<50	---	---	---
2-Methyl-4,6-dinitrophenol, ug/l	10	<10	---	---	---
2-Nitrophenol, ug/l	10	<10	---	---	---
4-Nitrophenol, ug/l	50	<50	91.9/74.7	100	92/75 %
Pentachlorophenol, ug/l	50	<50	86.2/75.3	100	86/75 %
Phenol, ug/l	10	<10	83.3/79.3	100	83/79 %
2,4,6-Trichlorophenol, ug/l	10	<10	---	---	---
Surrogate-PHL	---	87 %	90/85 %	---	---
Surrogate-2FP	---	79 %	76/69 %	---	---
Surrogate-TBP	---	85 %	95/84 %	---	---
Surrogate-NBZ	---	93 %	93/83 %	---	---
Surrogate-2FBP	---	81 %	85/76 %	---	---
Surrogate-TPH	---	60 %	101/91 %	---	---
Date Extracted	---	06.29.93	06.29.93	---	---
Date Analyzed	---	07.01.93	07.01.93	---	---

Methods: EPA SW-846 and 40 CFR Part 136.

SL SAVANNAH LABORATORIES
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REPORT OF RESULTS

Page 21

LOG NO SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES

43674-16 LCS Control Limit
43674-17 LCS % RPD
43674-18 % RPD Control Limit
43674-19 Control Limits Source

PARAMETER	43674-16	43674-17	43674-18	43674-19
Purgeables (624)				
Benzene, %	73-144 %	5.4 %	<22 %	SL
Chlorobenzene, %	68-136 %	8.3 %	<17 %	SL
1,1-Dichloroethene, %	60-136 %	5.5 %	<19 %	SL
Toluene, %	68-138 %	4.3 %	<17 %	SL
Trichloroethylene, %	66-136 %	3.9 %	<20 %	SL
BN-A Extractables (625)				
Acenaphthene, %	65-116 %	11 %	<20 %	SL
1,4-Dichlorobenzene, %	46-110 %	11 %	<18 %	SL
2,4-Dinitrotoluene, %	39-133 %	19 %	<25 %	SL
N-Nitrosodi-N-Propylamine, %	39-142 %	5.5 %	<60 %	SL
Pyrene, %	36-153 %	2.0 %	<21 %	SL
1,2,4-Trichlorobenzene, %	49-108 %	13 %	<13 %	SL
2-Chlorophenol, %	54-99 %	7.9 %	<18 %	SL
4-Nitrophenol, %	10-112 %	20 %	<108 %	SL
Pentachlorophenol, %	15-139 %	14 %	<39 %	SL
Phenol, %	10-96 %	4.9 %	<21 %	SL

Methods: EPA SW-846 and 40 CFR Part 136.

Steven J. White
Steven J. White

Final Page Of Report

**SL SAVANNAH LABORATORIES
& ENVIRONMENTAL SERVICES, INC.**

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

- | | | |
|---|-----------------------|--------------------|
| <input type="checkbox"/> 5102 LaRoche Avenue, Savannah, GA 31404 | Phone: (912) 354-7858 | Fax (912) 352-0165 |
| <input type="checkbox"/> 2846 Industrial Plaza Drive, Tallahassee, FL 32301 | Phone: (904) 878-3994 | Fax (904) 878-9504 |
| <input type="checkbox"/> 414 Southwest 12th Avenue, Deerfield Beach, FL 33442 | Phone: (305) 421-7400 | Fax (305) 421-2584 |
| <input type="checkbox"/> 900 Lakeside Drive, Mobile, AL 36693 | Phone: (205) 666-6633 | Fax (205) 666-6696 |
| <input type="checkbox"/> 6712 Benjamin Road, Suite 100, Tampa, FL 33634 | Phone: (813) 885-7427 | Fax (813) 885-7049 |

I.O. NUMBER	PROJECT NUMBER	PROJECT NAME <i>MAYPORT BID 1490</i>	MATRIX TYPE	REQUIRED ANALYSES								PAGE	OF		
				AQUEOUS MATRIX	NONAQUEOUS MATRIX	OIL MATRIX	AIR MATRIX	624+MTBE							
CLIENT NAME <i>U.S. Army Corps of Engr</i>		TELEPHONE/FAX NO. <i>912-652-5311</i>										<input type="checkbox"/> STANDARD TAT			
CLIENT ADDRESS <i>P O Box 889 SAVANNAH, Ga 31402</i>		CITY, STATE, ZIP CODE										<input type="checkbox"/> EXPEDITED TAT *			
SAMPLER(S) NAME(S) <i>J. Smith</i>		CLIENT PROJECT MANAGER <i>CARDWELL SMITH</i>										REPORT DUE DATE _____			
SAMPLING		SAMPLE IDENTIFICATION				NUMBER OF CONTAINERS SUBMITTED								* SUBJECT TO RUSH FEES	
DATE	TIME					4									
5/24/93	TRIP BLANK	X				4									
5/24/93	09:59	MAY-1490-1-6-93	X			4	2								
5/24/93	12:15	MAY-1490-5-6-93	X			4	2								
5/24/93	11:15	MAY-1490-2-6-93	X			4	2								
5/24/93	16:10	MAY-1490-3-6-93	X			4	2								
5/24/93	16:55	MAY-1490-4-6-93	X			4	2								
5/24/93	14:30	MPT-1490-2-6-93	X			4	2								
5/24/93	16:15	MAY-1490-EQP.BLK-6-93	X			4	2								
5/24/93	11:15	MAY-1490-2-Dup-6-93	X			4	2								
5/24/93	15:35	MAY-1490-6-6-93	X			4	2								
RELINQUISHED BY: (SIGNATURE) <i>Amued</i>		DATE 5/14/93	TIME 1:10	RECEIVED BY: (SIGNATURE) <i>J. Smith</i>				DATE 5/16/93	TIME 1:10	RELINQUISHED BY: (SIGNATURE) <i>J. Smith</i>				DATE 5/26/93	TIME 1:58
RECEIVED BY: (SIGNATURE)		DATE	TIME	RELINQUISHED BY: (SIGNATURE)				DATE	TIME	RECEIVED BY: (SIGNATURE)				DATE	TIME
FOR SAVANNAH LABORATORY USE ONLY												LABORATORY REMARKS			
RECEIVED FOR LABORATORY BY: (SIGNATURE) <i>L. Baker</i>		DATE 5/26/93	TIME 12:57	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO	CUSTODY INTACT		CUSTODY SEAL NO.		S.L. LOG NO.					